Fig. 1

Fig. 2

BASE STATION

| USER | MOBILE TERMINAL | PACKET GW | LINE SWITCHING GW | Provider | WWW Serv r |

URL input

S241

GET URL HTTP/1.0

S242

GET URL HTTP/1.0

S243

HTML DATA

S244

HTML DATA

S245

Browser Display

S246

HEAD SAMPLE. JPG HTTP/1.0

S247

HEAD SAMPLE. JPG HTTP/1.0

S248

RESPONSE DATA

S249

RESPONSE DATA

S250

GET SAMPLE. JPG HTTP/1.0

S251

GET SAMPLE. JPG HTTP/1.0

S252

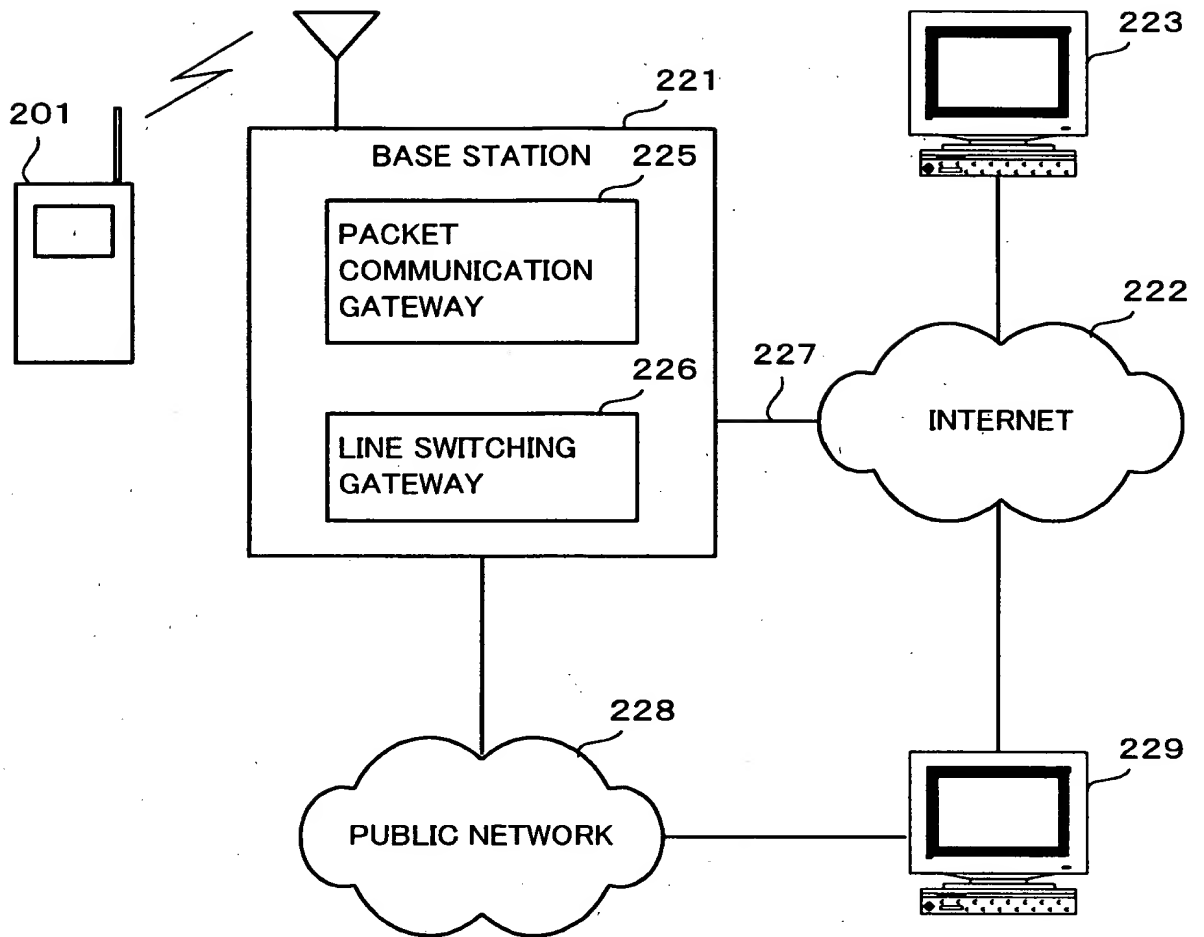GET SAMPLE. JPG HTTP/1.0

S253

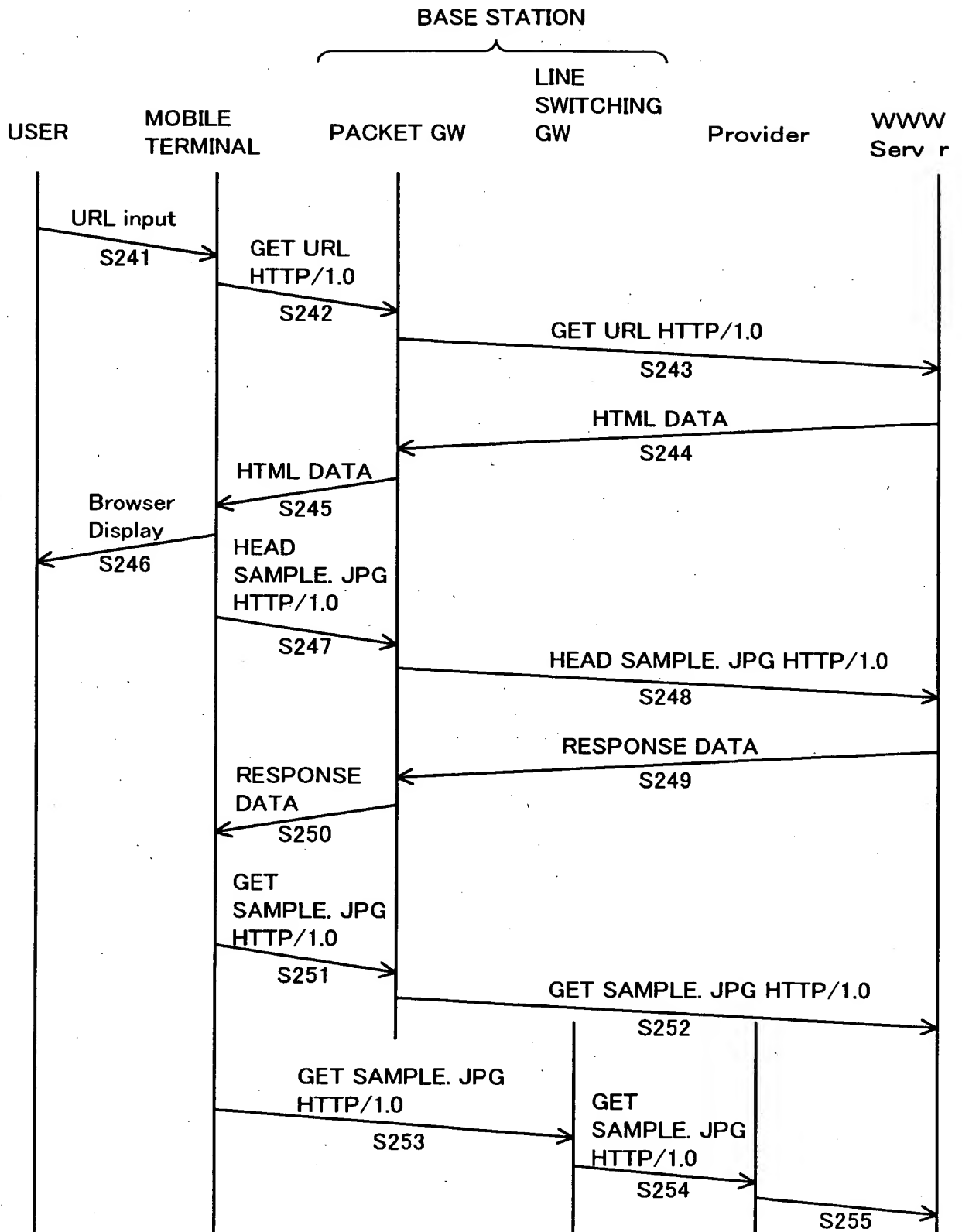GET SAMPLE. JPG HTTP/1.0

S254

S255

Fig. 3

```
HTTP/1.1 200 OK
Data: Wed,12 Jan 2000 07:01:17 GMT
Server: Apache/1.3.9(Unix)
Last-Modified: Wed,20 May 1998 14:59:42 GMT
E Tag: "6420c-656-3562efde"
Accept-Ranges: bytes
Content-Length: 1622
Connection: close
Content-Type: text/html

<HTML>
<BODY>
<CENTER>SAMPLE DATA</CENTER>
<IMG SRC="SAMPLE.JPG">
<A HREF="NEXT.HTML">NEXT</A>
</BODY>
</HTML>
```
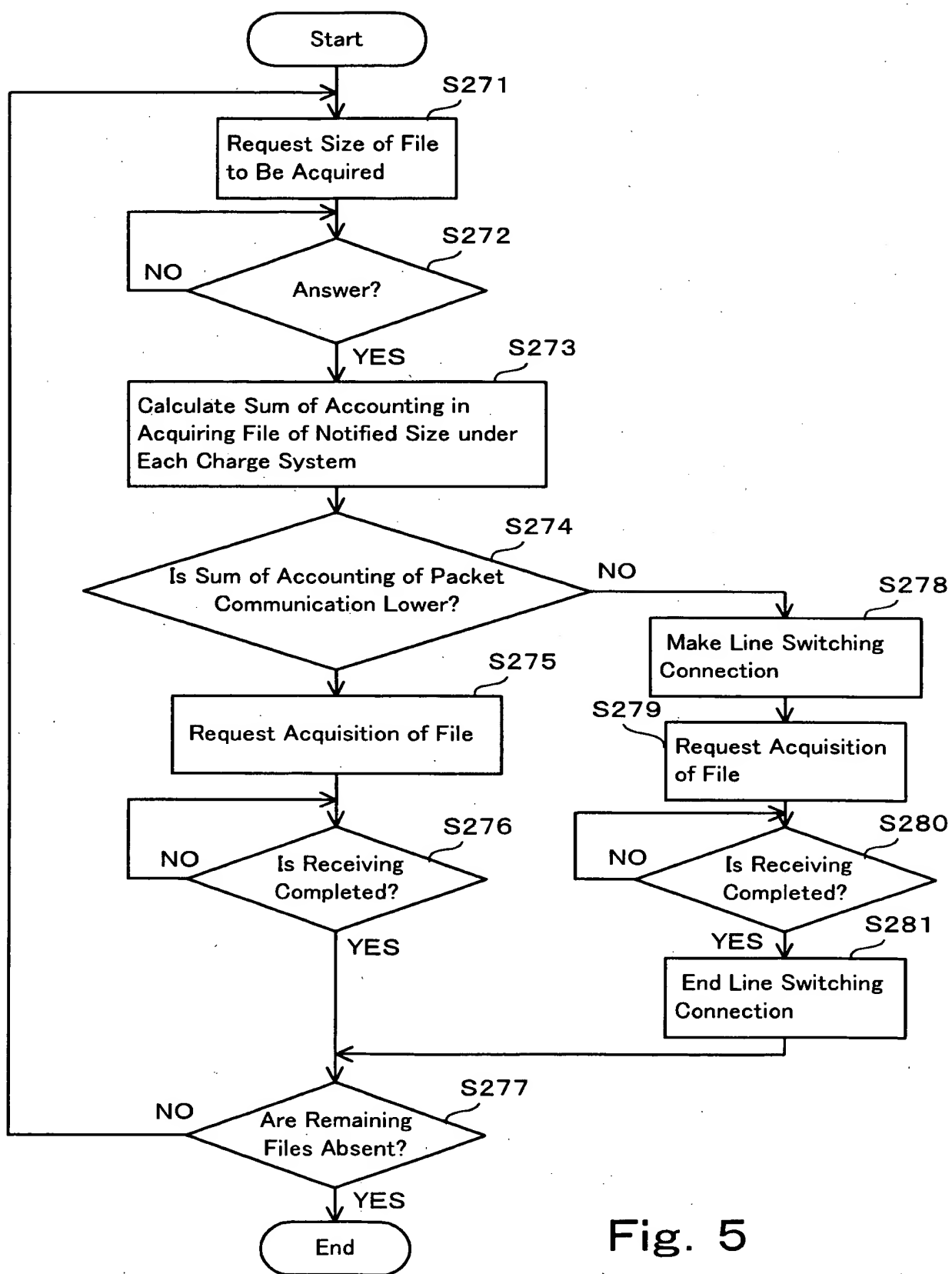
261

262

263

Fig. 4

Fig. 5

265

HTTP/1.1 200 OK
Data: Thu,13 Jan 2000 01:54:21 GMT
Server: Apache/1.3.9(Unix)
Last-Modified: Wed,03 Jul 1996 06:18:15 GMT
E Tag: "6420c-916-31da10a7"
Accept-Ranges: bytes
266 ——→ Content-Length: 122326
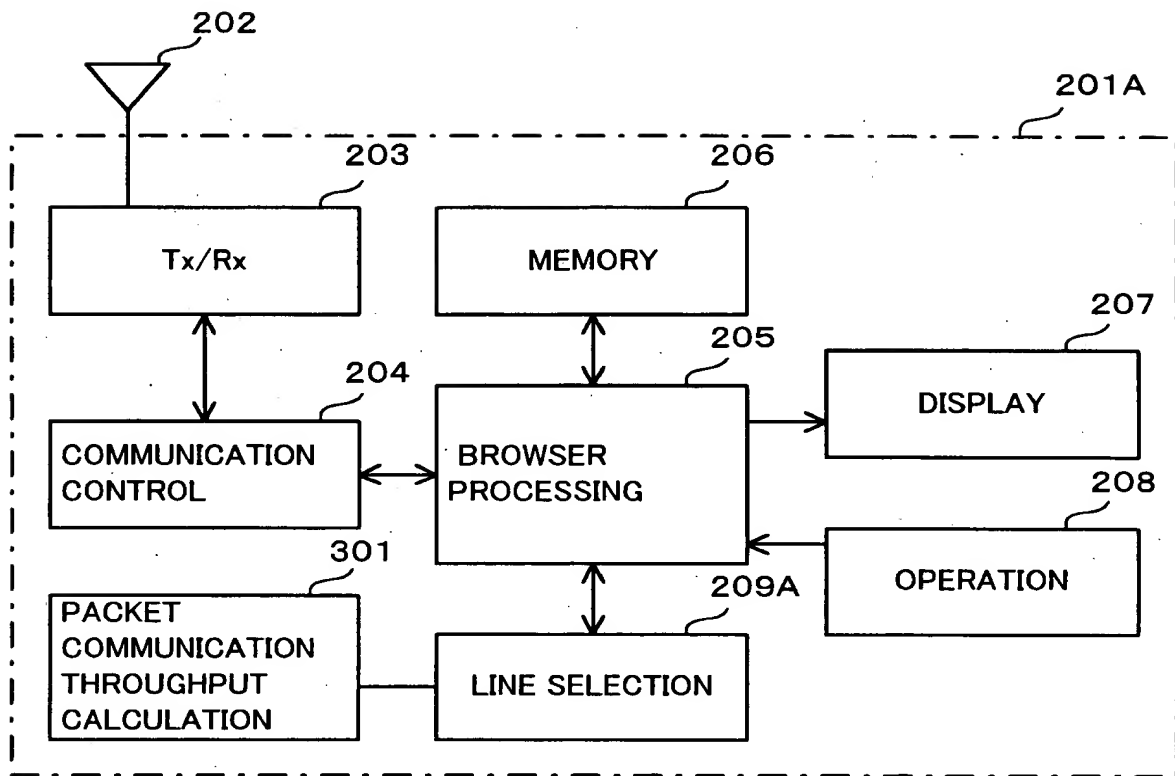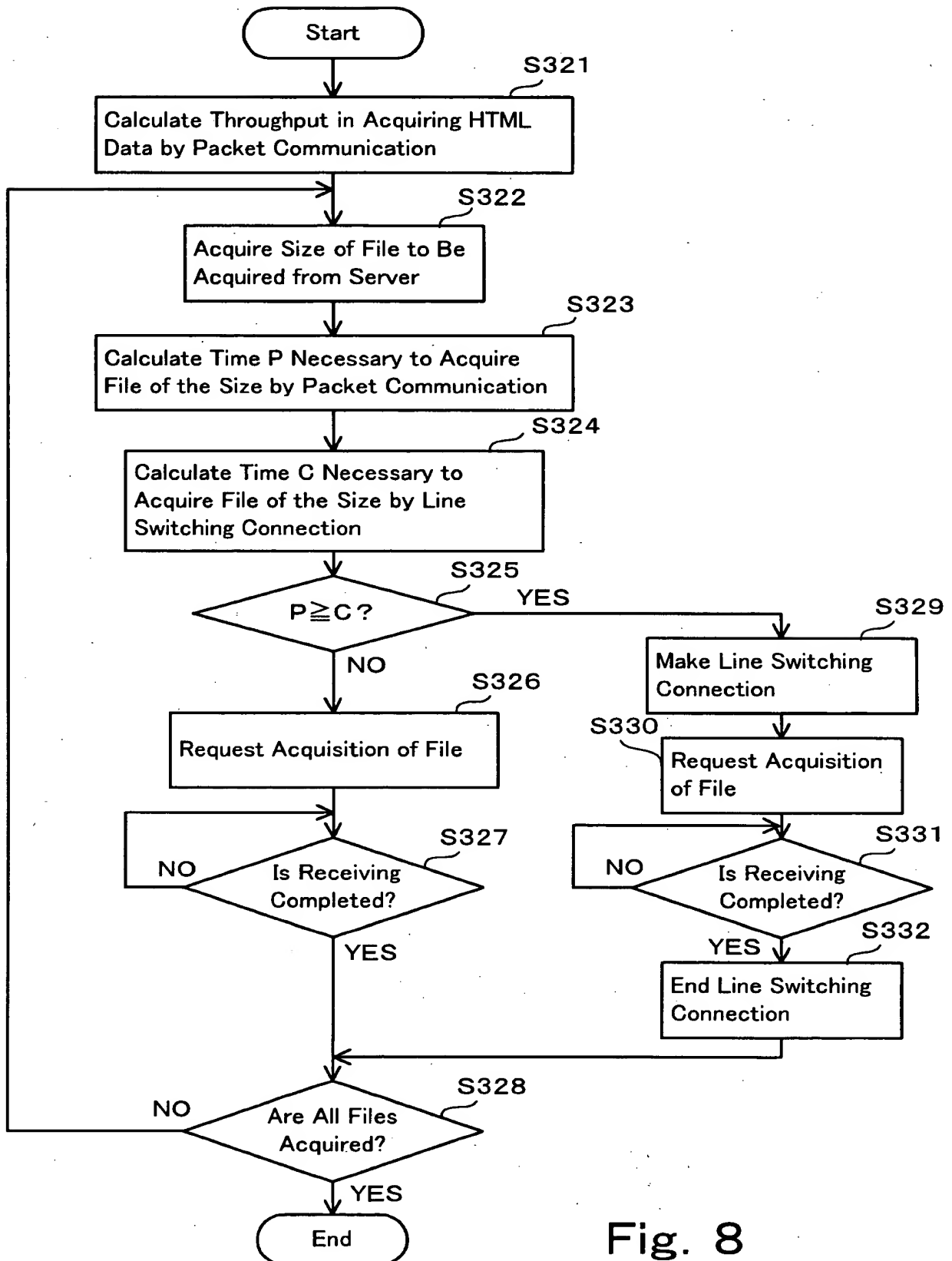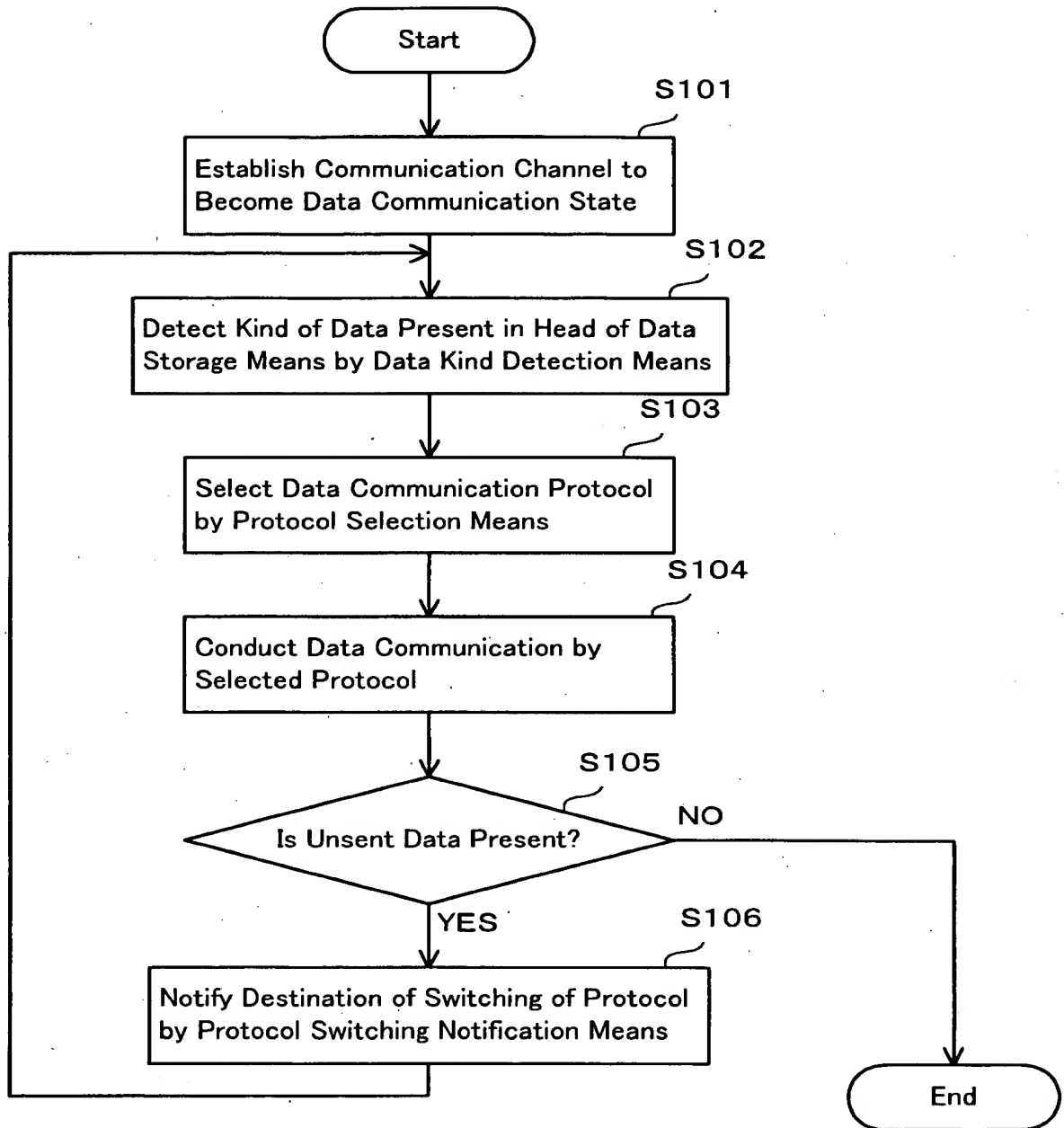Connection: close
Content-Type: image/gif

Fig. 6

Fig. 7

```
                        ┌─────────┐
                        │  Start  │
                        └─────────┘
                             │                        S321
                             ▼
        ┌──────────────────────────────────────┐
        │ Calculate Throughput in Acquiring HTML│
        │ Data by Packet Communication          │
        └──────────────────────────────────────┘
                             │                        S322
                             ▼
            ┌──────────────────────────────┐
            │ Acquire Size of File to Be    │
            │ Acquired from Server          │
            └──────────────────────────────┘
                             │                        S323
                             ▼
        ┌──────────────────────────────────────┐
        │ Calculate Time P Necessary to Acquire │
        │ File of the Size by Packet Communication│
        └──────────────────────────────────────┘
                             │                        S324
                             ▼
            ┌──────────────────────────────┐
            │ Calculate Time C Necessary to │
            │ Acquire File of the Size by Line│
            │ Switching Connection          │
            └──────────────────────────────┘
                             │                        S325
                             ▼
                        ◇─────────◇        YES                      S329
                        │  P≥C ?  │──────────────┐        ┌──────────────────┐
                        ◇─────────◇               │        │ Make Line Switching│
                             │ NO                 ▼        │ Connection        │
                             │            S326             └──────────────────┘
                             ▼                    S330             │
            ┌──────────────────────────────┐        ┌──────────────────┐
            │ Request Acquisition of File   │        │ Request Acquisition│
            └──────────────────────────────┘        │ of File           │
                             │                        └──────────────────┘
                             ▼            S327                │          S331
           NO        ◇─────────────◇               NO   ◇─────────────◇
         ┌──────────│ Is Receiving  │             ┌──────│ Is Receiving  │
         │          │ Completed?    │             │      │ Completed?    │
         │          ◇─────────────◇               │      ◇─────────────◇
         │                │ YES                   │            │ YES      S332
         │                │                       │            ▼
         │                │                       │   ┌──────────────────┐
         │                │                       │   │ End Line Switching│
         │                │                       │   │ Connection        │
         │                │                       │   └──────────────────┘
         │                ▼                       │            │
         │          S328  ◇─────────────◇◄────────┴────────────┘
         │    NO         │ Are All Files │
         └───────────────│ Acquired?     │
                         ◇─────────────◇
                                │ YES
                                ▼
                          ┌─────────┐
                          │   End   │
                          └─────────┘
```

Fig. 8

Prior Art

Fig. 9